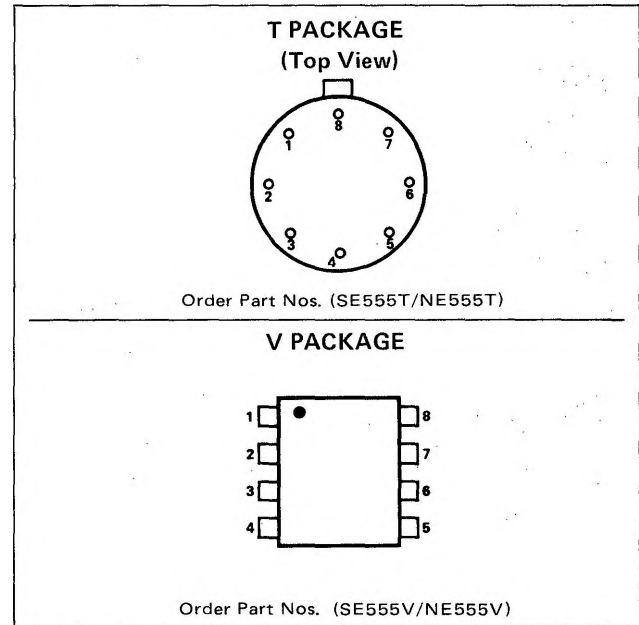


NEW PRODUCT ADVANCED INFORMATION LINEAR INTEGRATED CIRCUITS

FEATURES

- TIMING FROM MICROSECONDS THROUGH 1 Hr.
- CAN EITHER FREE RUN OR LATCH
- ADJUSTABLE DUTY CYCLE
- TIME DELAYS CAN BE RESET
- TEMPERATURE STABILITY 0.005% PER °C
- OPERATES FROM 4 to 15 VOLTS FOR 1% CHANGE IN TIMING
- TIMING CAN BE CHANGED 10:1 WITH CONTROL
- VOLTAGE
- OUTPUT CAN SOURCE OR SINK 100mA

PIN CONFIGURATION



ELECTRICAL CHARACTERISTICS (25° unless otherwise specified)

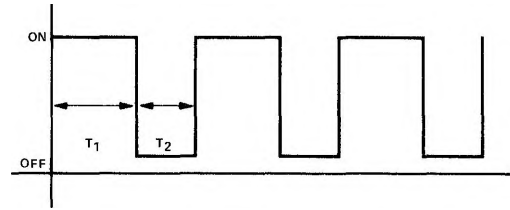
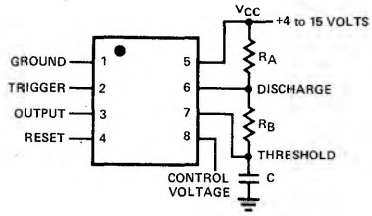
PARAMETERS	SE 555 T			NE 555 V			UNITS
	MIN.	TYP.	MAX.	MIN.	TYP.	MAX.	
Operating Temperature Range	-55		12.5	0		70	°C
Operating Supply Voltage	4.5		18	4.5		16	Volts
Operating Supply Current @5V		3			3		mA
Operating Supply Current @15V		8			8		mA
Timing Error, 10V ¹		0.5			1		%
Timing Error, 10V ²		2			4		%
Time-Temperature Drift		30			50		ppm/°C
Time-Supply Voltage Drift		50			100		ppm/°C
Trigger Voltage		1/3			1/3		xV _{CC}
Trigger Current		0.5			0.5		μA
Reset Voltage		0.7			0.7		Volts
Reset Current		0.1			0.1		mA
FM Input Impedance		3.3			3.3		kΩ
Bias Level		2/3			2/3		xV _{CC}
Deviation Range		+30,-90			+30,-90		%
Output Voltage Drop (Low) @ 10mA		0.1			0.1		Volts
@ 100mA		1.8			1.8		Volts
@ 200mA		2.3			2.4		Volts
Output Voltage Drop (High) @ 100mA		1.5			1.6		Volts
@ 200mA		2.0			2.1		Volts
Rise Time		100			100		nSec
Fall Time		100			100		nSec

NOTES:

1. R_A, R_B = 1K Ohm to 100K Ohm, t = 100 μ sec.
2. R_A, R_B = 500 Ohm to 10M Ohm, t = 10 μ sec.
3. External Load to V_{CC}, 2.7K Ohm.

TYPICAL CONNECTION

(Top View)



NOTES:

1. Jump 6 & 2 for free running & connect 4 to +V.
2. Ground 4 to reset timing.

3. For time delay $T = 1.1 R_A C$ ($R_B = 0$)
4. For free running timing is as follows:
 $T_1 = 0.685 (R_A + R_B) C$ $T_2 = 0.685 R_B C$